ANNEX TO EXHIBIT - A

DATA ITEM NUMBERS:
C001 LOGISTICS PRODUCT DATA
C002 LOGISTICS PRODUCT DATA SUMMARIES

LOGISTICS PRODUCT DATA

GEIA-STD-0007-A/GEIA-HB-0007-A – DI-SESS-81758
Tailored Logistics Product Data Attribute Selection Sheet & Guidance
GEIA-STD-0007-A/GEIA-HB-0007-A – DI-SESS-81759
Tailored Logistics Product Data Summary & Guidance

FOR

Common Driver Trainer (CDT) Tactical Wheeled Variant (TWV)

Prepared by

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* **DATA PRODUCT DELIVERABLE**: **LOGISTICS PRODUCT DATA ATTRIBUTE SELECTION SHEET/LOGISTICS PRODUCT DATA SUMMARIES**

* This worksheet is used to select data deemed necessary by the government.
* Data should be used to feed downstream government process. *
* *
* SELECT EXPLANATION *
* X Data product required on all items *
* *
* A As applicable *
* *
* T Registered Support Equipment Only *
* *
* U Non-Registered Support Equipment Only *
* *
* R Repairables only *
* *
* P All "P" source code items *
* *
* N New "P" source code items *
* *
* Y National Stock Number items *
* *
* O "Ref" items only *
* *
* F First appearance items only *
* *
* C COTS items *
* *
* I NDI items *
* *
* D Developmental items *
* *
* L LRU/WRA items *
* *
* S SRA/SRU items *
* *
* M Packaging, Common items *
* *
* B Packaging, Bulk items *
* *
* E Support Equipment *
* NOTE: Other codes may be assigned by the program office as identified below. *
* Program specific selections and explanations.
*

* **ISL INITIAL SPARES/REPAIR PARTS LIST**

* **CBL COMMON AND BULK ITEM LIST**

* **TTE TOOLS AND TEST EQUIPMENT LIST**

* **PPL PROVISIONING PARTS LIST**

MCL MATERIEL COMPONENT LIST

* Ref **GEIA-STD-0007-A/GEIA-HB-0007-A** for code definitions

DATA PRODUCT TITLE	SELECT	ADDITIONAL INFORMATION
allowance_item_code		
allowance_item_quantity		
automatic_data_processing_equipment_code		
hm_Item_Basis_of_Issue_data		
authorized_quantity		
end_item_range		
organizational_level		
calibration_measurement_requirement_summary_ recommended		
calibration_interval	A	TADSS as required, TTE (Engineering estimate acceptable)
calibration_item		
calibration_procedure	A	TADSS as required, TTE
calibration_required	A	TADSS as required, TTE
calibration_time		
change_authority_number		
cleaning_and_drying_procedures		
commercial_and_government_entity_code	X	CBL; ISL; PPL; TTE; MCL (see attached for additional guidance)
adapter_interconnector_device_required		
additional_reference_number_commercial_and_ government_entity_code		
item_commercial_and_government_entity_code		
automatic_test_equipment_commercial_and_ government_entity_code		
support_equipment_commercial_and_government_ entity_code		
contractor_technical_information_code_commercial_ and_government_entity_code		
packaging_data_preparer_commercial_and_ government_entity		
support_equipment_commercial_and_ government_entity_code		
operational_test_program_ commercial_and_ government_entity_code		
contractor_furnished_equipment_government_ furnished_equipment		
design_data_category_code_contractor_ recommended		
integrated_logistics_support_equirement_ category_code_contractor_recommended		
contractor_technical_information_code		
physical_security_pilferage_code		
criticality_code		
cushioning_and_dunnage_material		
cushioning_thickness		
demilitarization_code	X	PPL
design_data_category_code		

design_data_price		
end_item_acronym_code		
essentiality_code	X	ISL; PPL
design_data_category_code_estimated_price		
design_data_category_code_government_required		
integrated_logistics_support_requirement_ category_code_estimated_price		
figure_number		
nonoperational_fragility_factor		Non-Operability Fragility Factor (NOFF)
technical_manual_functional_group_code		
hardness_critical_item		Hardness Critical Item (HCI) (Nuclear)
hardware_development_price		
hazardous_code	X	ISL; PPL
indenture_code	X	Indenture Code (IND CD)/Indenture Code for Kits PPL; CBL; MCL
logistics_support_analysis_control_number_ structure		
input_power_source_ac_dc		Input Power Source: Alternating Current/Direct Current
input_power_source_operating_ range_minimum		
input_power_source_operating_ range_maximum		
input_power_source_ frequency_range_minimum		
input_power_source_ frequency_range_maximum		
input_power_source_phase		
input_power_source_watts		
input_power_source_percent _maximum_ripple		
integrated_logistics_support_price		
integrated_logistics_support_		Integrated Logistic Support (ILS)
requirement_category_code		Requirement Category Code (IRCC)
interchangeability_code		
intermediate_container_code		
intermediate_container_quantity		
item_category_code		
system_end_item_item_designator_code		
end_article_item_designator		
item_name	X	CBL; ISL; PPL; TTE; MCL (see attached for additional guidance)
support_equipment_full_item_name		
item_name_code		
item_number		
special_packaging_instruction_number_ julian_date		
line_replaceable_unit		
price_lot_quantity_to		

price_lot_quantity_from		
maintenance_action_code		
maintenance_replacement_rate_i		Maintenance Replacement Rate (MRR) I/Failure Factor 1 (FF1)
maintenance_replacement_rate_ii		Maintenance Replacement Rate (MRR) II/Failure Factor 2 (FF2)
condemned_at_depot_maintenance_task_ distribution		Maintenance Task Distribution (MTD) at Condemnation At Depot (CAD)
material_leadtime		
material_weight		
maximum_allowable_operating_time		
required_operational_mean_time_between_failures	X	ISL; PPL (see attached for additional guidance)
support_equipment_mean_time_between_failures		
required_operational_mean_time_to_repair		
support_equipment_mean_time_to_repair		
annual_operating_requirement_measurement_base		
mean_time_between_failure_operational_ measurement_base		
wearout_life_measurement_base		
method_of_preservation_code		
mobile_facility_code		
container_national_stock_number		
interoperable_item_national_item_identification_ number		
national_stock_number_cognizance_code		
national_stock_number_materiel_control_code		
line_item_number	X	PPL; MCL; For all Non-expendables.
national_stock_number_federal_supply_ classification	X	PPL; MCL; For all Non-expendables. Management Control Numbers Acceptable
national_stock_number_national_item_ identification_number	X	PPL; MCL; For all Non-expendables. Management Control Numbers Acceptable
national_stock_number_special_materiel_ identification_code_materiel_management_ aggregation_code		
national_stock_number_activity_code		
next_higher_assembly_provisioning_list_ item_sequence_number		
next_higher_assembly_provisioning_list_ item_sequence_number_indicator		
not_repairable_this_station		
operators_manual		
optional_procedures_indicator		
overhaul_replacement_rate		
packaging_category_code		
support_equipment_parameter_input_or_ output_code		
support_equipment_parameter		
support_equipment_parameter_range_from		
support_equipment_parameter_range_to		
support_equipment_parameter_accuracy		

support_equipment_parameter_range_or_ value_code		
unit_under_test_parameter_input_output_code		
unit_under_test_parameter		
unit_under_test_parameter_range_from		
unit_under_test_parameter_range_to		
unit_under_test_parameter_accuracy		
unit_under_test_parameter_range_value_code		
unit_under_test_parameter_operational_ specification_code		
pass_thru_price		
precious_metal_indicator_code	**X**	**PPL**
preparing_activity		
preservation_material_code		
prior_item_provisioning_list_item_ sequence_number		
production_lead_time		
program_parts_selection_list		
prorated_exhibit_line_item_number		
prorated_quantity		
system_end_item_provisioning_contract_ control_number		
provisioning_list_category_code		
prior_item_provisioning_list_item_sequence_ number		
parts_manual_provisioning_nomenclature		
price_used		
provisioning_remarks		
system_end_item_quantity_per_assembly	**X**	**ISL; PPL; MCL**
system_end_item_quantity_per_end_item	**X**	**ISL; PPL; MCL**
quantity_per_figure		
system_equipment_quantity_per_test		
quantity_per_unit_pack		
quantity_procured		
quantity_shipped		
recommended_minimum_system_stock_level		
recurring_cost		
reference_designation		
reference_designation_code		
reference_number	**X**	**CBL; ISL; PPL; TTE; MCL (see attached for additional guidance)**
adapter_interconnector_device_reference_ number		
additional_reference_number_item_reference_ number	**X**	**CBL; ISL; PPL; TTE; (see attached for additional guidance)**
automatic_test_equipment_reference_number		
support_equipment_unit_under_test_ reference_number		
support_equipment_reference_number		

additional_reference_number		
additional_reference_number_reference_ number_category_code		
additional_reference_number_reference_ number_variation_code		
reference_number_variation_code		
contractor_repair_cycle_time		
organizational_repair_cycle_time		
depot_shipyard_repair_cycle_ time		
special_repair_activity_repair_cycle_time		
replaced_or_superseding_provisioning_ list_item_sequence_number		
replaced_or_superseding_provisioning_ list_item_equence_number_Indicator		
organizational_replacement_task_distribution special_repair_activity_replacement_task_ distribution		
support_equipment_recommendation_data_ date_of_revision_submission		
overhaul_replacement_rate		
same_as_provisioning_list_item_sequence_ number		
design_data_category_code_scope		
from_serial_number_effectivity		
to_serial_number_effectivity		
service_designator_code		
support_equipment_service_designator		
using_service_designator_code		
shelf_life	**X**	**PPL**
shelf_life_action_code		
skill_specialty_code_for_support_equipment_ operator		
source_maintenance_and_recoverability_code	**X**	**PPL; CBL; ISL; TTE (See additional guidance)**
support_equipment_source_maintenance_ recoverability_code		
spares_acquisition_integrated_with_production		
special_maintenance_item_code		
special_marking_code		
special_material_content_code		
special_packaging_instruction_number		
special_packaging_instruction_number_ revision		
supplemental_packaging_data		
support_equipment_shipping_length		
support_equipment_shipping_width		
support_equipment_shipping_height		
support_equipment_explanation_narrative		
support_equipment_recommendation_ data_number		
support_equipment_recommendation_data_		

revision_remarks		
support_equipment_shipping_weight		
technical_manual_change_number		
technical_manual_indenture_code		
tecnhical_manual_number		
unit_under_test_parameter_test_accuracy_ ratio_actual		
support_equipment_unit_under_test_ arameter_test_accuracy_ratio_desired		
support_equipment_unit_under_test_ parameter		
total_item_changes		
total_quantity_recommended	**X**	**ISL (see attached for additional guidance)**
type_equipment_code		
type_of_change_code		
price_type_of_price_code		
unit_container_code		
unit_container_level		
unit_of_issue	**X**	**CBL; ISL; PPL**
unit_of_issue_conversion_factor		
unit_price.	**X**	**CBL; ISL; PPL; MCL; TTE (UI Price)**
unit_of_measure	**X**	**CBL; ISL; PPL**
support_equipment_shipping_dimensions_ unit_of_measure		
maximum_unit_pack_cube		
unit_size_length		
unit_size_width		
unit_size_height		
maximum_unit_pack_length		
maximum_unit_pack_width		
maximum_unit_pack_depth		
unit_under_test_explanation		
unit_weight		
maximum_unit_pack_weight		
usable_on_code		
wearout_life		
work_unit_code		
UNIQUE DATA ELEMENTS		
The Maintenance Plan Products have additional attributes that are calculated from the attributes in GEIA-STD-0007. These attributes and their respective calculations are provided below and should be included in contractual documents.		**Rotable Pool Factor (RPF)** **The predicted number of times in one maintenance cycle that an item is removed from its next higher assembly at the Organizational/Intermediate level of maintenance, repaired at the Intermediate level and returned, ready for issue at this level (9 character numeric field with a 3 character decimal place).** **RPF = [MTD(F) + MTD(H)] X MRR** **MTD(F) – intermediate_direct_support_ maintenance_task_distribution**

		MTD(H) – intermediate_general_support_ maintenance_task_distribution **MRR – maintenance_replacement_rate_item**
warranty_ data	**X**	**PPL; ISL (See Guidance Below)**
approved_baseline_drawing_revision	**X**	**PPL (See Guidance Below)**
Serial_Number	**A**	**MCL; Required for COTS IT Components (computers, switches, servers, routers) or any serially managed items**
Accounting Requirements Code (ARC): **Nonexpendable-N** **Durable-D** **Expendable-X**	**X**	**MCL:** **Per AR 350-38: TADSS that are not consumed in use and—** **(1) Cost $1,000 or more are nonexpendable.** **(2) Cost between $200 to $999.99 are durable.** **(3) TADSS that are consumed in use, lose their identity, or cost less than $200 are expendable.** **IT components (Switches, Routers, Computers, Servers) are considered nonexpendable, as they do not lose their identity when installed. In most cases they are considered pilferable, and required to be serially managed.**

LOGISTICS PRODUCT DATA ADDITIONAL GUIDANCE

CAGE CODE/REFERENCE NUMBER - All known definitive references shall be provided. The CAGE and reference number of the OEM of the part will be used as the primary reference unless a government specification, standard, or drawing is applicable. Alternate CAGE and reference number is required for all known sources.

INTEROPERABLE ITEM NAME - Approved interoperable item names in accordance with the Federal Item Name Directory (H6) are not required. Common names used commercially or by the OEM are acceptable if they are in English and representative of the item. Brand specific names should be avoided as well as 'catch' names that are not intuitively representative of the item or its function. Item Names cannot be abbreviated unless approved by the requiring authority.

MEAN TIME BETWEEN FAILURES - Engineering estimates are acceptable when OEM cannot supply data for commercial items.

SOURCE, MAINTENANCE AND RECOVERABILITY (SMR) CODE - The contractor shall use AR 700-82 as guidance. The Maintenance and Recoverability codes used should represent the level of responsibility rather than the source of responsibility. An LCCS contractor, for example, may provide Organization, Intermediate, and Depot level support; therefore Maintenance codes O, F, G and D could all be used to indicate support provided by a LCCS contractor. Code "K" for contractor facility support should be limited to those items that must be serviced by an OEM or OEM authorized provider.

The following guidance was provided by DA Policy Memo in 2006 for use in assigning SMR codes applicable to a two level maintenance strategy:

Level 1 - Field Maintenance
- (C) Operator/Crew
- (O) Services or Aviation Maintenance Company (AMC) tasks
- (F) Field maintenance or Aviation Support Battalion (ASB) tasks

Level 2 - Sustainment Maintenance
- (H) Below Depot sustainment
- (L) Special Repair
- (K) Contractor
- (D) Depot Maintenance

TOTAL QUANTITY RECOMMENDED - The data provided should represent the number of items the contractor has calculated to be necessary to support the newly fielded end item until normal supply and maintenance procedures can assume support. This calculation should include consideration for the essentiality of the component, price, lead times, and failure factors. Separate quantities may be required to support differing numbers of end items at multiple locations.

WARRANTY DATA - The contractor shall provide all the warranty information associated to all procured items. The warranty product data shall include manufacturer's point of contact, CAGE codes, length of warranty, and special warranty provisions, e.g., third party vendor access.

APPROVED BASELINE DRAWING REVISION – Drawing revisions of each component shall be documented based on the results of a Government approved Configuration Audit (CA) FCA/PCA.

LOGISTICS PRODUCT DATA SUMMARIES GUIDANCE

Reference: DI-SESS-81759, Logistics Product Data Summaries. The desired information per summary and associated guidance is developed specifically for the Attribute Selection Sheet Appendix A, tailored from the GEIA-HB-0007-A.

APPLICABILITY

The following Logistics Product Data Summaries model templates provide information required for the contractor to conduct logistics planning and analysis, influence program decisions, assess design, and verify contractor performance. To avoid redundancies and inconsistencies, the requirements for these summaries shall be verify against other program functional elements data requirements.

It is not intended that all the requirements contained in this model summaries shall be applied. These summaries are tailored to the minimum requirements of the applicable contract for the acquisition of TADSS, assemblies, and components.

SUMMARY TITLE: Post Production Support

SPECIFIC INSTRUCTIONS:

Reference: DI-SESS-81759, Logistics Product Data Summaries developed specifically IAW Attribute Selection Sheet (Appendix A, GEIA-HB-0007-A).

Provide overall average annual support cost estimates in current year dollars per site for:
a) Hardware Maintenance (labor)
b) Routine replacement of parts (hardware)
c) Software support, including recurring licensing

Provide life expectancy and refresh recommendations (in years) for all major subsystems and components. (e.g. routine refresh of computer equipment)

Provide recommendations for when major modification or upgrades may be required (year, component or subsystem, estimated cost).

Estimate requirements for manpower and personnel for annual operations, support, and maintenance.

Identify any supportability risk items due to limited sources, long lead times, support limitations, or other concerns and suggest support alternatives to overcome them.

DATA IN LOGISTICS PRODUCT DATA SPECIFICATION (Please Provide the data product title):

DATA NOT IN LOGISTICS PRODUCT DATA SPECIFICATION (Please provide the product data title, its definition and its format):

Summary shall be in narrative format with embedded tables as required. Data elements are not limited to those indicated above.

SUMMARY LAYOUT (if applicable): **Government Provided [ ] Contractor Provided [X]**

SUMMARY TITLE: Repair Analysis
SPECIFIC INSTRUCTIONS:

Reference: DI-SESS-81759, Logistics Product Data Summaries, developed specifically for the

SUMMARY TITLE: Maintenance Planning

SPECIFIC INSTRUCTIONS:

These summaries provide the government with conclusions and recommendations of the maintenance repair analysis. The government may verify the conclusions and recommendations by utilizing contractor's inputs to perform an in-house analysis. These summaries may also be used by the government to develop initial fielding plans for the end item's support structure. The conclusions may include actions and recommendations for influencing the system design; a listing of which items should be repaired and which should be discarded. These summaries may identify for each item being repaired the level of maintenance at which the repair should be performed and associated costs. These summaries may identify for the system support structure, the operational readiness achieved, and the placement and allocation of spares, support equipment, and personnel.

These summaries may also include other information for the analysis performed, e.g., a listing of the input data and their corresponding values and sources of the data; operational scenario modeled; assumptions made; constraints and noneconomic factors imposed on the system; maintenance alternatives considered; the analytical method and model used to perform the economic evaluations; and discussion of the sensitivity evaluations performed and results obtained.

DATA IN LOGISTICS PRODUCT DATA SPECIFICATION (Please Provide the data product title):

Reference: DI-SESS-81759, Logistics Product Data Summaries, developed specifically for the Attribute Selection Sheet (Appendix A, GEIA-HB-0007-A).

These summaries provide maintenance planning information to the government that may be used to develop initial fielding plans for the end items support structure. These summaries may also be used to verify that the maintenance actions and support structure are aligned with the government's requirements and maintenance concept. The information contained within these summaries is associated with repairable items to the level of detail specified on contract. The repairable items should be identified within the hierarchy of the end item broken down by an agreed upon configuration control method. It should identify all preventive and corrective maintenance actions along with the required spares and support equipment. These summaries should also provide supporting information justifying the need for each maintenance action, e.g., elapsed time of maintenance actions; task frequency; failure rate of an item; Mean Time To Repair an item; and an in some cases item's man-hour allocation by maintenance action and level.

See Paragraph 4.1.2 in GEIA-HB-0007-A.

DATA IN LOGISTICS PRODUCT DATA SPECIFICATION (Please Provide the data product title):

DATA NOT IN LOGISTICS PRODUCT DATA SPECIFICATION (Please provide the data product title, its definition and its format): Summary shall be in narrative format with embedded tables as required. Data elements are not limited to those indicated above.

SUMMARY LAYOUT (if applicable): **Government Provided [ ] Contractor Provided [ ]**

SUMMARY TITLE: Support and Test Equipment

SPECIFIC INSTRUCTIONS:
Reference: DI-SESS-81759, Logistics Product Data Summaries, developed specifically for the Attribute Selection Sheet (Appendix A, GEIA-HB-0007-A).

These summaries provide data necessary to register, or verify the registry of, the support or test equipment in the government's inventory. They provide details of the Test Measurement and Diagnostic Equipment (TMDE) calibration procedures, technical parameters, and any piece of support equipment needed to support the system.
See Paragraph 4.1.3 of GEIA-HB-0007-A.

DATA IN LOGISTICS PRODUCT DATA SPECIFICATION (Please Provide the data product title):

DATA NOT IN LOGISTICS PRODUCT DATA SPECIFICATION (Please provide the data product title, its definition and its format): Summary shall be in narrative format with embedded tables as required. Data elements are not limited to those indicated above.

SUMMARY LAYOUT (if applicable): **Government Provided [ ] Contractor Provided [ ]**

SUMMARY TITLE: Supply Support

SPECIFIC INSTRUCTIONS:
Reference: DI-SESS-81759, Logistics Product Data Summaries, developed specifically for the Attribute Selection Sheet (Appendix A, GEIA-HB-0007-A).

These summaries provide the government with information on static and application related hardware information which may be used to determine initial requirements and cataloging of support items to be procured through the provisioning process. These summaries may include the identification of the system breakdown, maintenance replacement factors, roll-up quantities, design change information, and associated technical manuals, as applicable. These summaries may show information on different categories of provisional items such as long lead items, bulk items, tools and test equipment, etc

See Paragraph 4.1.4 of GEIA-HB-0007-A.

DATA IN LOGISTICS PRODUCT DATA SPECIFICATION (Please Provide the data product title):

DATA NOT IN LOGISTICS PRODUCT DATA SPECIFICATION (Please provide the data product title, its definition and its format): Summary shall be in narrative format with embedded tables as required. Data elements are not limited to those indicated above.

SUMMARY LAYOUT (if applicable): **Government Provided [ ] Contractor Provided [ ]**

SUMMARY TITLE: Manpower, Personnel and Training

SPECIFIC INSTRUCTIONS:
Reference: DI-SESS-81759, Logistics Product Data Summaries, developed specifically for the Attribute Selection Sheet (Appendix A, GEIA-HB-0007-A).

These summaries provide information to the government so it can establish training plans and ensure manpower and personnel constraints are met. The information contained within this report should identify items' corrective and preventive maintenance tasks, operations tasks, manpower estimates for each task by maintenance level, personnel skills required to perform the maintenance tasks, and any training required to allow these tasks to be performed. The information contained within this area is associated with items to the level of detail specified on contract. The items should be identified within the hierarchy of the end item broken down by an agreed upon configuration control method.

See Paragraph 4.1.5 of GEIA-HB-0007-A.

DATA IN LOGISTICS PRODUCT DATA SPECIFICATION (Please Provide the data product title):

DATA NOT IN LOGISTICS PRODUCT DATA SPECIFICATION (Please provide the data product title, its definition and its format): Summary shall be in narrative format with embedded tables as required. Data elements are not limited to those indicated above.

SUMMARY LAYOUT (if applicable): **Government Provided [ ] Contractor Provided [ ]**

SUMMARY TITLE: Facilities Summary

SPECIFIC INSTRUCTIONS:

Reference GEIA-STD-0007, Logistics Product Data GEIA-HB-0007, Logistics Product Data Handbook

These summaries identify the facilities required to maintain, operate, train, and test an item. The facilities may be organizational, intermediate, or depot maintenance, training, mobile and test facilities. The summary information contained within shall help plan for any modification to an existing facility or development of a new facility. The information shall be associated with repairable items to the level of detail specified in the contract. The repairable items should be identified within the hierarchy of the end item broken down by an agreed upon configuration control method. Data provided must be in compliance with all Department of Defense and national health, life, and environmental codes. National standards and terminology used by the construction industry for civil, electrical, mechanical, etc., specialties should be used.

See Paragraph 4.1.6 of GEIA Handbook.

DATA IN LOGISTICS PRODUCT DATA SPECIFICATION (Please Provide the product data title):

DATA NOT IN LOGISTICS PRODUCT DATA SPECIFICATION (Please provide the data product title, its definition and its format):

Summary shall be in narrative format with embedded tables as required. Data elements are not limited to those indicated above.

SUMMARY LAYOUT (if applicable): **Government Provided [ ] Contractor Provided [X]**